



INFORMATION

This analog temperature controller is used for simple applications with on/off or P control, without deviation indication.

FEATURES

- Built-in Laser Trim ASIC
- Easy to change range
- ON-OFF for time proportional selectable
- Compact, only 86mm in depth
- Wide selection of control output option
- Wide selection of ranges
- Sensor break protection
- Low Cost
- Safety : UL,cUL
- EMC, LVD : CE

STANDARD SPECIFICATIONS

INPUT

Thermocouple (T/C)	Type J, K
RTD	3-wires PT 100 ohms, DIN or JIS
Range	See ordering information
Accuracy	$\pm 2\%$ of span
Cold Junction Compensation	$\pm 0.1^\circ\text{C} / 1^\circ\text{C}$
Rejection of RTD Lead Resistance	$(0.1^\circ\text{C} - 0.025\%$ of PV reading) / ohm
Sensor Break Protection	Upscale
External Resistance	100 ohms max.
Normal Mode Rejection	60 dB
Common Mode Rejection	120 dB
Sample Rate	3 times / second

CONTROL

Proportion Band	2.2% of span
ON-OFF Hysteresis	1 % of span
Cycle Time	20 seconds for relay output, 1 second for pulsed voltage output, 0.02 second for linear current or voltage output.
Control Action	Reverse action

OUTPUT

Control	Relay 5A / 240V max. resistive load
Pulsed Voltage	20mA / 32VDC max.
Current	4-20mA, 0-20mA, max. load 500 ohms
Voltage	0- 10V, min. load 500k ohms

ADJUSTMENT

Set point	Single turn wirewound potentiometer
Resolution of set point	0.2% of span
Accuracy of set point	$\pm 2\%$ of span
Repeatability of set point	± 0.1 span

INDICATION

Process Indicator	BTC-902 : HI/LO LED indicators, BTC-901 : None
Status Indicator	ON (red) LED Lamp, OFF (green) LED Lamp

POWER

Rating	100-130VAC or 200-240VAC, 50/60Hz
Consumption	Less than 5VA

CONTROL MODE

Operating Temperature	0-50°C
Humidity	0 to 90% RH (non-codensing)
Insulation	20M ohms min. (500VDC)
Breakdown	AC2000V, 50/60Hz, 1 minute
Vibraton	10-55Hz, amplitude 1mm
Shock	200 m/s ² (20g)
Weight	BTC-901: 240 grams, BTC-902: 270 grams
Dimension	48(W)X48(H)X86mm (depth behind panel)
Panel cutout	45 X 45mm